# ملخص

# كيمياء عضوية ( 5 )

## لطلاب السنة التحضيرية بجامعة الملك خالد بأبها – المحالة

## 2015

**عمل تطوعي طلابي**

**لا تنسى زيارة المدونة http://kku-a.blogspot.com**

**و نشر المدونة بين الطلاب لتعم الفائدة**



حل تمارين الكتاب

P 22

$CH_3CH(CH_3)CH_2CH_2CH_2OH$

OH

مراجعة

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(2)

a) $CH_3CH(CH_3)CH_2CH_2CH_3$ (1, 2, 3, 4, 5) 2-Methylpentane

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2 b) $CH_3CH_2CH_2CH(CH_3)CH_3$ (5, 4, 3, 2, 1) 2-Methylpentane

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c) $CH_3CH(CH_3)CH_2CH(CH_2CH_3)CH_3$ (1, 2, 3, 4, 5, 6) 2,4-Dimethylhexane

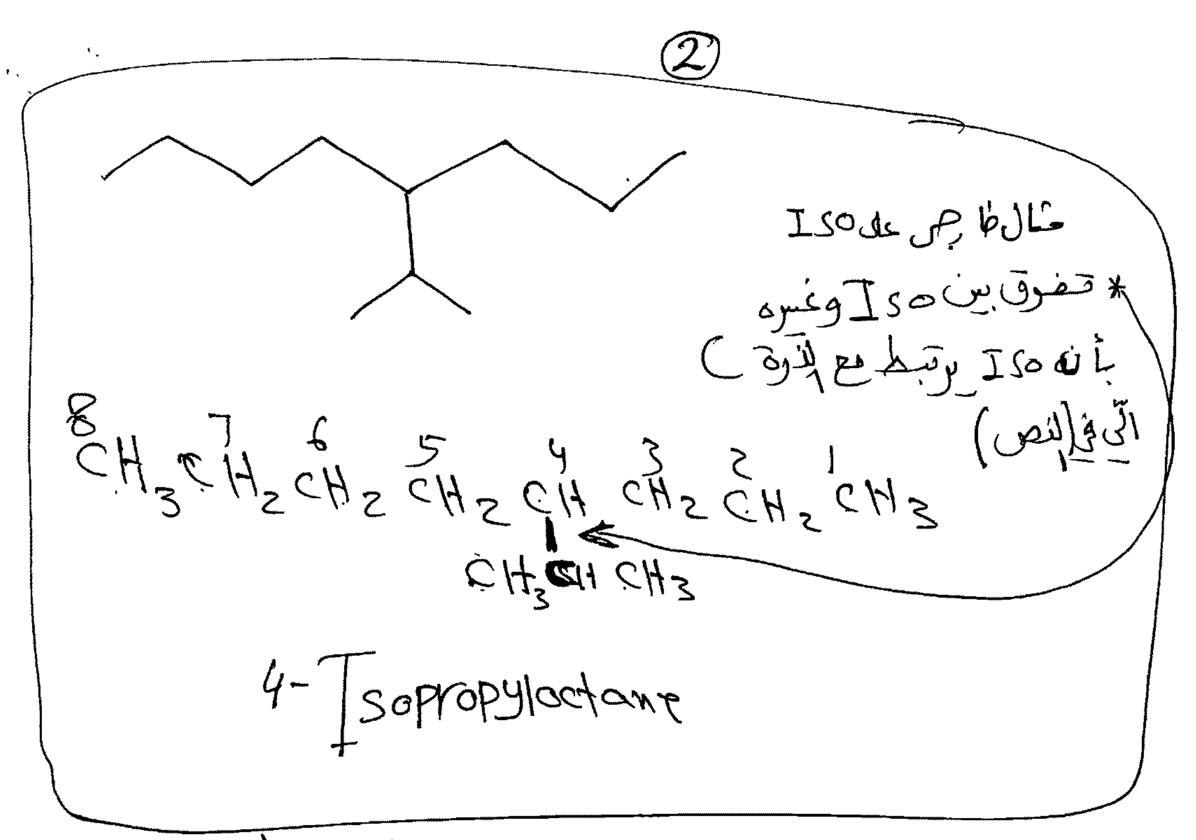
E

d) $CH_3CH_2CH(CH_3)CH_2C(CH_2CH_3)(CH_2CH_2CH_3)CH_2CH_2CH_2CH_3$ (1 2 3 4 5 6 7 8 9)

M, P

5-Ethyl-3-methyl-5-propylnonane

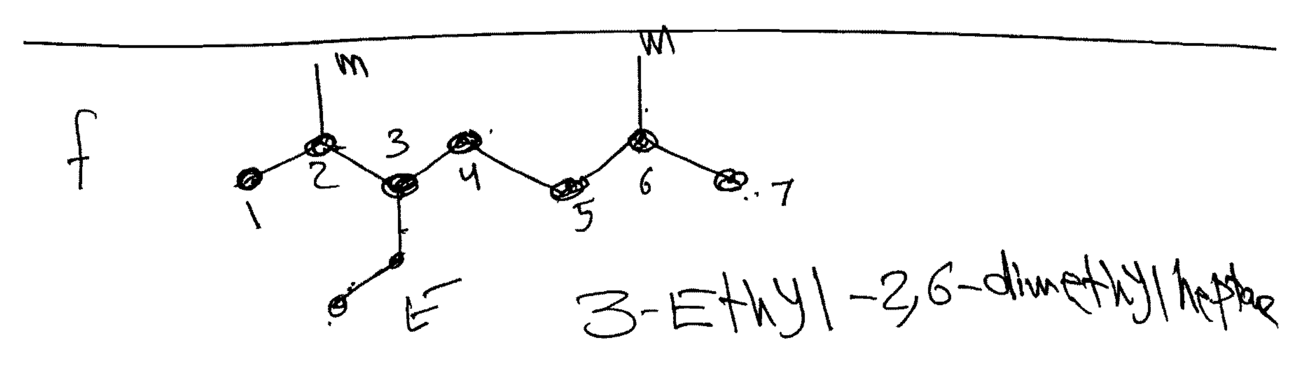
②




e) 3-Ethyl-2,5-dimethyl hexane

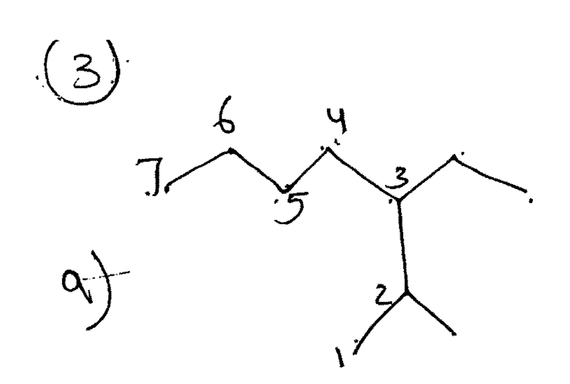
اذا وجدت التفرعيه على نفس الموضع من الطرفيه ولها نفس الابجديه انظر الى التفرع الثالث وخذ الاقل

او اعمل الحل بطريقتين واجمع الارقام لكل طريقة وخذ الأقل



(3)

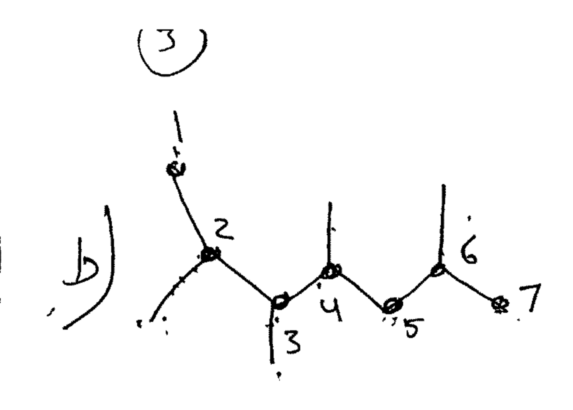
a)




3-Ethyl-2-methylheptane

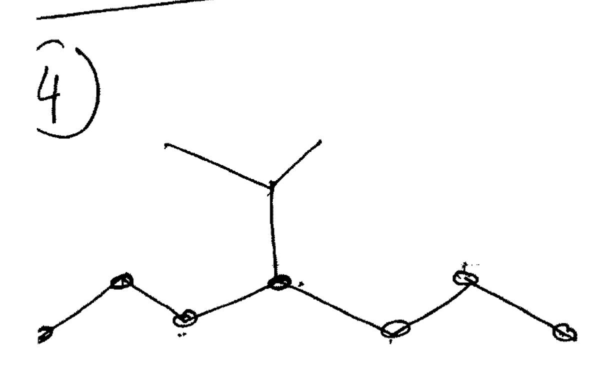
(3)

b)



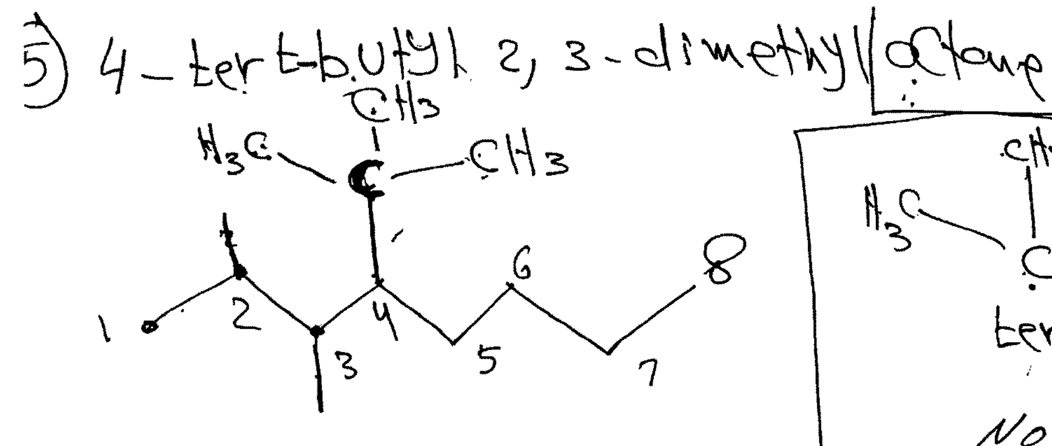

2,3,4,6-Tetramethylheptane

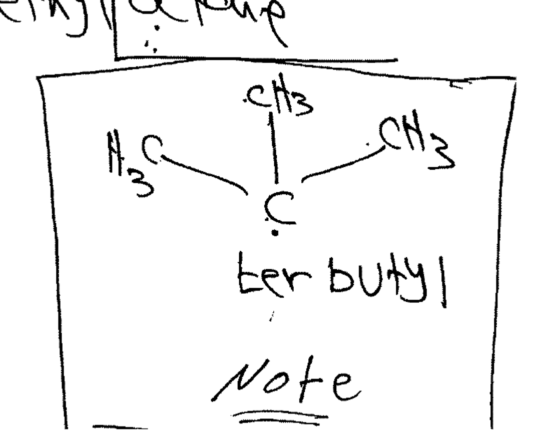
4)



4-Isopropylheptane

5) 4-tert-butyl 2, 3-dimethyl octane





(4)

(6)

$CH_3$ $CH_3$

$CH_3\,C - CH\,CH_2\,CH_3$

$CH_3$

1° 1° 1° 4° 1° 3° 2° 1°

1° 3° 2° 1° 1° 2° 4° 1° 1°

سؤالها يجي How many

P 2 1 1

Sec tert quar

(7)

(a)

~~Butylcyclohexane~~

Pentyl cyclohexane

(b)

1 2 3

1,1,3-Trimethylcyclopentane

(8) a)

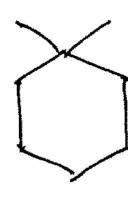
$H_3C$ — $CH_3$

1,2-Dimethylcyclopentane

(5) b)

Isobutanecyclohexane

c)



5-Cyclopentyl-2-methylheptane

d)

1-Ethyl-3,5-dimethylcyclooctane

(9) a)

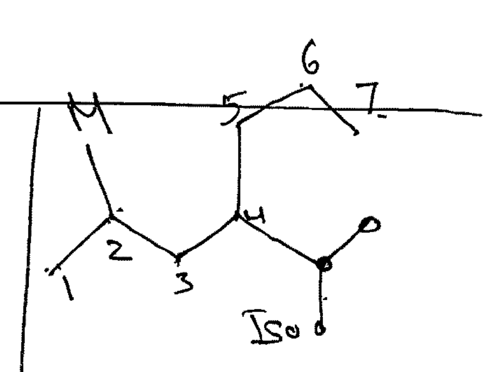
b)



(10)

2-Methylbutane (IUPAC)

Iso Pentane (Common)

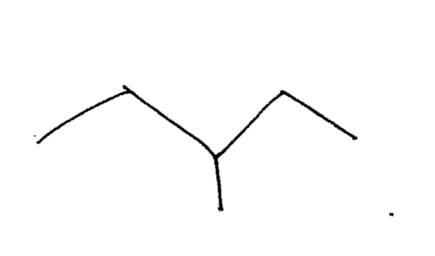



4-Isopropyl-2-methylheptane

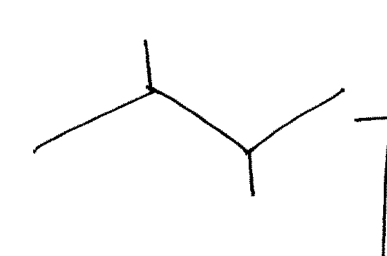
(11)

(6) Isomers $C_6H_{14}$

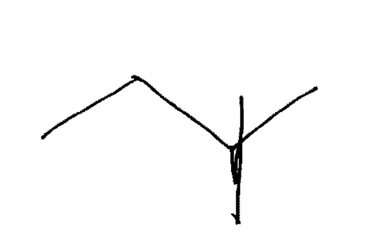
1) → Hexane



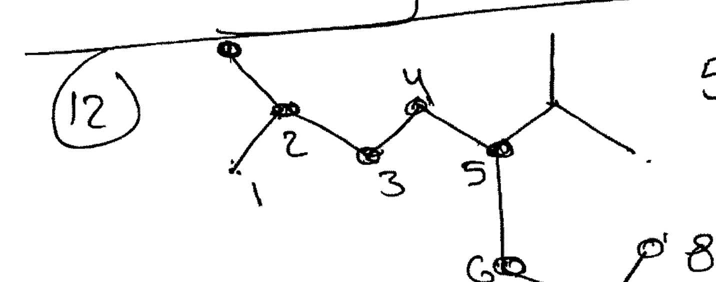

→ 2-Methylpentane



→ 3-Methyl Pentane



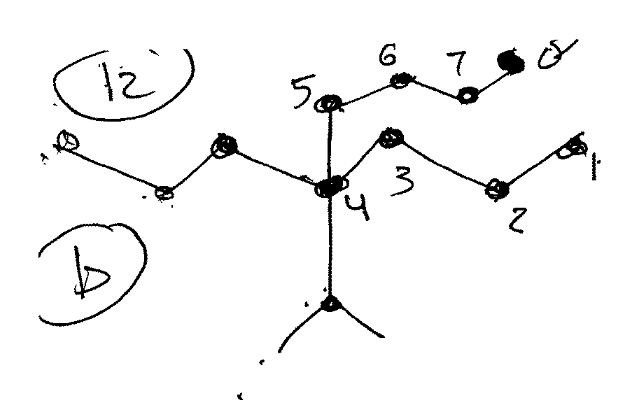
→ 2,4-Dimethylbutane



2,2-Dimethylbutane

(12)

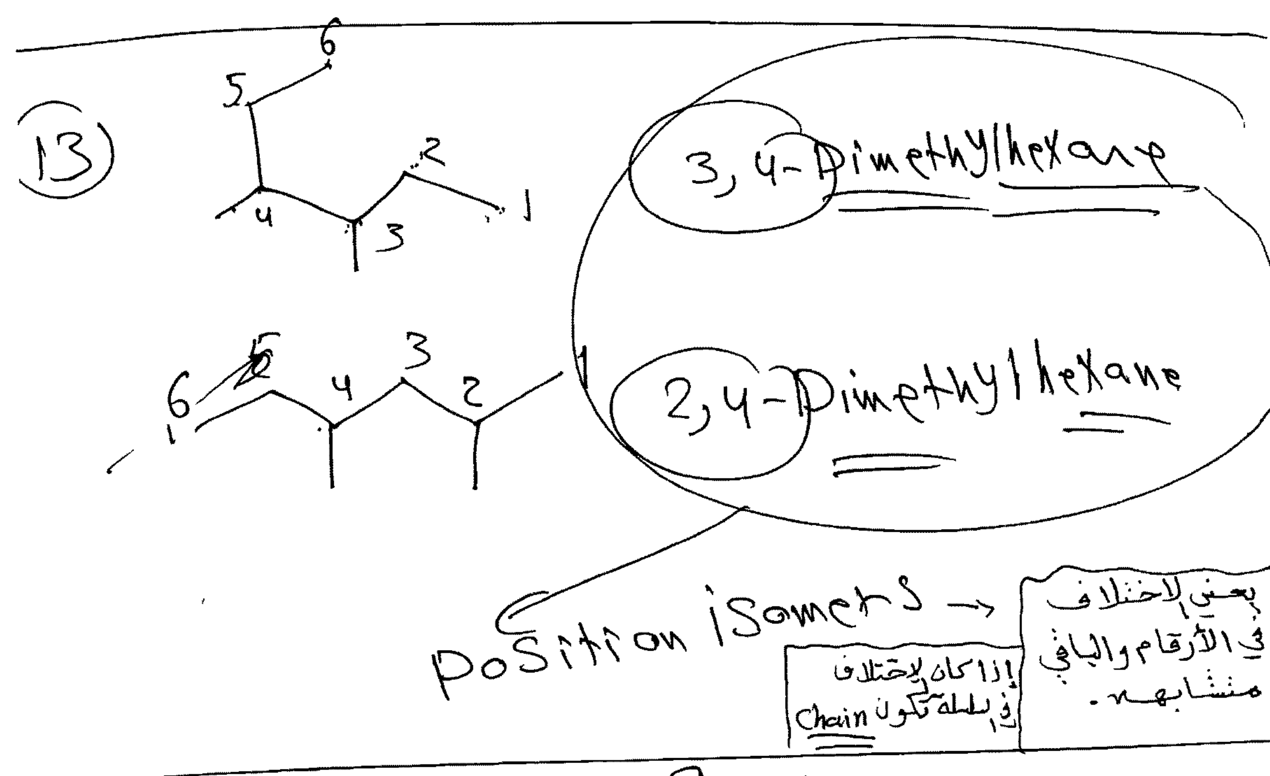
5-Isopropyl-2-methyloctane



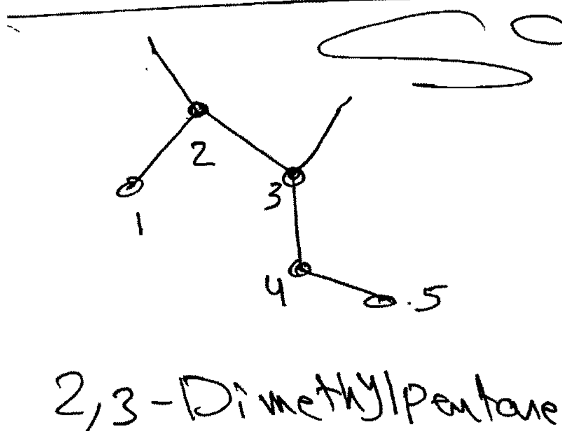




4-Isopropyl-4-propyloctane

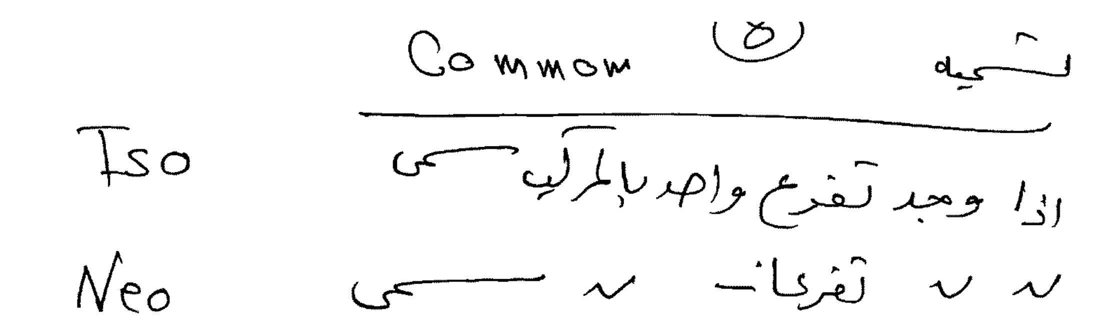



Same

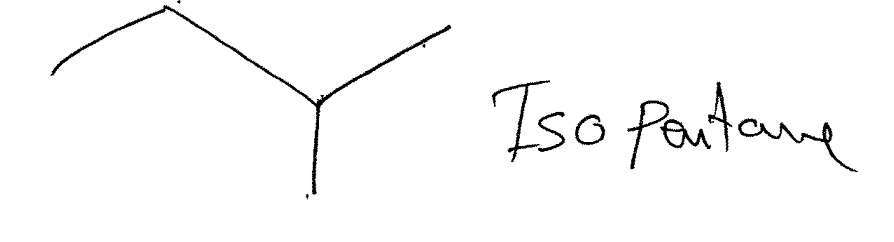



2,3-Dimethylpentane

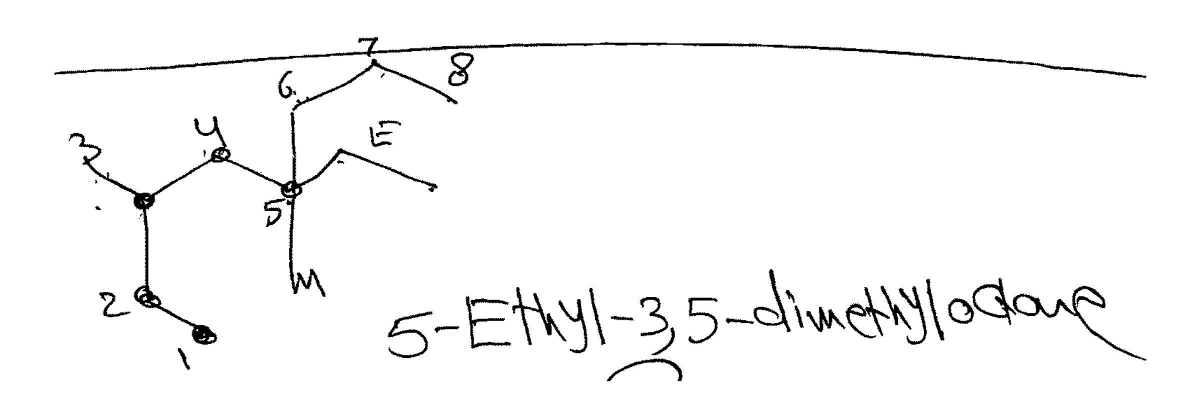
2,3-Dimethylpentane




BUtane




Neopentane





2,2- Dimethylpropane (4)

What is The molecular formula to

2,2 - Dimethylpropane (5)

```
   H   CH3  H
   |    |   |
H- C -  C - C -H
   |    |   |
   H   CH3  H
```

$C_5H_{12}$

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What is common na

ماالاسم الشائع

```
      CH3
       |
CH3   CH CH3
```

Isobutane

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Common

```
       CH3
        |
CH3 —  C — CH3
        |
       CH3
```

Neopentane